APPENDIX 1 NATURAL TANGENTS AND COTANGENTS

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ĭ	TAN	COT	TAN	COT	TAN	COT	TAN	COT	TAN	COT
0	0000000	1 0000000	0.01746 0.01775	57.2900 54.3504	0.03492	. 28.6363 . 28.3994	: 0.05241 ! 0.05270	19.0811	1 0.06773	14.3007 60 14.2411 59
2	0.00058	1718.87	0.01804	55.4415	0.03550	1 28.1664	1 0.05299 I	18.8711	0.07051	14.1821 58
3	0.00087	1145.92	0.01833	54.5613	0.03579	1 27.9372	1 0.05328 1	18.7678	1 0.07080	14.1235 57
4	0.00116	859.436	1 0.01862	53.7086	0.03609	1 27.7117	1 0.05357 I	18.6656	1 0.07110	14.0655 56
5	0.00145	1 687.549	0.01891	52.8821	0.0363B	1 27.4899	1 0.05387 1	18.5645	0.07139	14.0079 55
6	0.00175	572.957	0.01920	52.0807 1	0.03667	1 27.2715	0.05416	18.4645	0.07168	13.9507 54
7	0.00204	491.106	0.01949	50.5052	0.03735	1 24.0366	1 0.03443 1	18 2477	1 0.0/17/	13.8940 53 13.8378 52
9	0.00253	1 727./10	1 0.01778	30.3463 49.8157	0.03723	1 26.6367	1 0.05503 1	18. 1708	1 0.07256	13.7821 51
10	0.00291	343.774	0.02036	49.1039	0.03783	26.4316	1 0.05533 I	18.0750	0.07285	13.7267 50
11	0.00320	312.521	0.02066	48.4121	0.03812	1 26.2296	1 0.05562 1	17.9802	1 0.07314	13.6719 49
12	0.00349	286.478	0.02095	1 47.7395 J	0.03B42	1 26.0307	1 0.05591 1	17.8863	I 0.07344	13.6174 48
13	0.0037B	264.441	0.02124	1 47.0853 I	0.03871	25.8348	1 0.05620 1	17.7934	1 0.07373	13.5634 47
14	0.00407	245.552	0.02153	46.4489	0.03900	1 25.6418	1 0.05649 I	17.7015	1 0.07402	13.5098 46 13.4566 45
										13.4039 44
										13.3515 43
18	0.00524	190.984	0.02269	44.0661	0.04016	1 24.8978	1 0.05766 1	17.3432	1 0.07517	13.2996 42
19	0.00553	180.932	1 0.02298	43.5081	0.04046	1 24.7185	1 0.05795	17.2550	1 0.07548	13.2480 41
20	0.00582	I 171.885	I 0.0232B	42.9641	0.04075	24.5418	1 0.05824 1	17.1693	0.07579	13.1969 1 40
21	0.00611	1 163.700	0.02357	42.4335	0.04104	24.3675	0.05854	17.0837	0.07607	13.1461 39
										13.0958 38 13.0458 37
										12.9962 36
										12.9469 35
										12.8981 34
										12.8496 33
										12.9014 32
										12.7536 31
										12.7062 30 12.6591 29
							1 0.06175			
										12.5660 27
										12.5199 26
35	0.01018	98.2179	1 0.02764	1 36.1776	0.04512	1 22.1640	1 0.06262 1	15.9687	1 0.08017	12.4742 25
										12.4288 24
										12.3838 23 12.3390 22
										12.2946 21
										12.2505 20
										12.2067 19
										12.1632 18
										12.1201 17
										12.0772 16
										12.0346 15 11.9923 14
										11.9923 14 11.9504 13
										11.9087 12
49	0.01425	70.1533	1 0.03172	31.5284	0.04920	1 20.3253	1 0.06671	14.9898	1 0.08427	11.8673 11
							1 0.06700			
							1 0.06730 1			
							0.06759 0.06788			
							1 0.06766 1			
							1 0.06847 1			
							1 0.06B76 I			
57	0.0165B	1 60.3058	1 0.03405	1 29.3711	0.05153	1 19.4051	1 0.06905 1	14.4823	1 0.0B661	11.5461 3
							1 0.06934 H			
							1 0.06963 1			
60	0.01746	1 57.2900	0.03492	28.6363	0.05241	19.0811	1 0.06993 1	14.3007	0.08749	11.4301 0
	COT	TAN	COT	TAN	COT	TAN	COT	TAN	COT	TAN
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N	TAN	COT	TAN	COT	TAN	COT	TAN	COT	TAN	COT	_
0	0.08749	1 11.4301	0.10510	9.51436	I 0.12278	B. 14435	0.14054	7.11537	1 0.15838	1 6.31375	1 60
1	0.08778	1 11.3919	I 0.10540	9.48781	I 0.12308	I B. 12481	I 0.140B4	7.10038	I 0.15868	1 6.30189	1 59
2							1 0.14113				
3							0.14143 0.14173				
-							0.14202				1 55
							1 0.14232				i 54
7	1 0.08954	11.1681	0.10716	9.33155	0.12485	8.00948	0.14262	7.01174	0.16047	1 6.23160	I 5 3
	0.08983	11.1316	0.10746	9.30599	0.12515	7.99058	1 0.14291	6.99718	0.16077	6.22003	1 52
	0.09013	11.0954	1 0.10775	9.28058	0.12544	7.97176	0.14321	6.98268	0.16107	6.20851	1 51
11	0.07042	1 11 0237	1 0.10803	9 23014	1 0.123/4	1 7.73302	0.14351 0.14381		1 0.16137	1 6.17/03	1 30
							0.14410				
13	0.09130	10.9529	1 0.10893	9.18028	0.12662	7.89734	1 0.14440	6.92525	0.16226	6.16283	1 47
14	0.09159	10.9178	1 0.10922	9.15554	0.12692	1 7.87895	I 0.14470	6.91104	0.16256	1 6.15151	1 46
15	0.09189	1 10.8829	I 0.10 75 2	9.13093	0.12722	1 7.86064	1 0.14499	6.87688	0.16286	l 6. 14023	I 45
							0.14529				
							0.14559 0.14588				
							0.14588				
20	0.09335	1 10.7119	0.11079	9.00983	0.12849	7.77035	0.14648	6.82694	1 0.16435	1 A. OR444	1 40
21	0.09365	I 10.6783	1 0.11128	8.78578	I 0.12899	7.75254	I 0.14678	6.81312	0.16465	1 6.07340	1 39
22	1 0.09394	1 10.6450	0.11159	8.96227	0.12929	7.73480	I 0.14707	6.79936	0.16495	6.06240	1 38
23	0.09423	10.6118	0.11187	8.93867	i 0.12 958	7.71715	I 0.14737	6.78564	0.16525	6.05143	1 37
24	0.09453	1 10.5789	0.11217	8.91520	0.12988	7.69957	0.14767	6.77199	0.16555	6.04051	1 36
20	0.09482	10.5462	0.11246	8.84185	0.13017	7.68208	0.14796 0.14826	6.75838	0.16585	6.02962	1 35
27	0.09541	1 10.3135	1 0 112/6	0.00002 8.84551	1 0.13047	/.00400 7 A4739	0.14826	6./4483 6.77177	0.16615	1 4.01878	1 34
28	0.09570	10.4491	1 0, 11335	8.82252	0.13106	1 7.63005	0.14886	6.73133	1 0.16643	1 5 99720	1 32
29	0.09600	1 10.4172	0.11364	8.79964	0.13136	7.61287	0.14915	6.70450	0.16704	5.98646	31
30	0.09629	10.3854	I 0.11394	8.77689	I 0.13165	1 7.59575	1 0.14945 F	6.69116	1 0.16734	1 5.97576	1 30
31	0.09658	1 10.3538	I 0.11423	B.75425	0.13195	7.57872	0.14975	6.67787	I 0.16764	5.96510	1 29
32	0.09688	1 10.3224	0.11452	8.73172	0.13224	7.56176	0.15005	6.66463	I 0.167 94	5.95448	1 28
33	0.09/1/	1 10.2913	1 0.11482	B.70931	0.13254	7.54487	0.15034 (6.65144	0.16824	5.94390	1 27
35	0.09776	10.2294	1 0.11541	B. 66482	1 0.13264	1 7.52600	0.15084	0.03531 A 62523	1 0.16834	1 2.73333	25
36	0.09805	10.1988	0.11570	8.64275	0.13343	7.49465	0.15124	6.61219	0.16914	5.91236	1 24
37	0.09834	10.1683	0.11600	8.62078	1 0.13372	1 7.47806	0.15153	6.59921	0.16944	5.90191	1 23
38	0.09864	10.1381	0.11629	8. 5989 3	0.13402	7.46154	1 0.15183	6.58627	0.16974	5.89151	1 22
							0.15213				1 21
40 1	0.09923	1 10.0780	0.11688	8.55555	0.13461	7.42971	0.15243	6.56055	0.17033	5.87080	1 20
42	0.09732	10.0483	1 0 11747	B.33402	0.13471 0.13521	1 7 30414	0.15272 0.15302	6.34///	0.17063	5.86051	1 19
43	0.10011	9.98931	0.11777	B. 49128	0.13550	7.37010	0.15332	6.33303 6.52234	1 0.17073	5.85024	1 17
44	0.10040	9.96007	1 0.11806	B. 47007	0.13580	7.36389	I 0.15362 I	6.50970	0.17153	5.82982	1 16
45	0.10069	9.93101	0.11836	8.44896	0.13609	7.34786	1 0.15391	6.49710	0.17183	5.81944	1 15
46	0.10099	1 9.90211	0.11B65	B. 42795	0.13639	7.33190	1 0.15421	6.48456	1 0.17213	5.80953	1 14
47	0.10128	9.87338	0.11895	B. 40705	0.13669	7.31600	0.15451	6.47206	0.17243	5.79944	1 13
40	0.10138	7.84482 9.814#1	1 0.11924	0.38625	1 U.13698	7.30018	0.15481 0.15511	6.45761	0.17273	5.78938	! 12
50	0.10214	7.010 7 1	1 0.11734 (8.34494	1 0.13/28 1 0.13758	: /•∠8442 7•26873	0.15511	6.44/20	0.17303	3.//936	l 11
51	0.10246	1 9.76009	1 0.12013 1	8.32446	0.13787	7.25310	1 0.15570 (6.42253	0.17363	5.75941	0
52 1	0.10275	1 9.73217	1 0.12042 1	B.30406	0.13817	7.23754	1 0.15600 1	6.41026	0.17393	5.74949	i É
53	0.10305	1 9.70441	1 0.12072	8.28376	0.13846	7.22204	1 0.15630 (6.39804	0.17423	5.73960	1 7
54	0.10334	1 9.67680	1 0.12101	8.26355	0.13876	7.20661	I 0.15660 I	6.38587	0.17453	5.72974	1 6
55 i 56 i	0.10363	1 9.64935	0.12131	8.24345	0.13906	7.19125	0.15689	6.37374	0.17483	5.71992	1 5
57	0.10373	1 7.02203	1 0.12160 1 0.12190	8.20352	0.13935	1 /.1/394 1 7 16071	0.15719 0.15749	6.36165	0.17513	5.71013	. 4
58	0.10452	1 9.56791	1 0.12219	8.19370	0.13995	7.100/1	0.15/49 0.15779	6.3 17 61	1 0.1/343 0.17575	5.49044	13
59	0.10481	1 9.54106	1 0.12249	8.16398	0.14024	7.13042	0.15809	6.32564	0.17603	5.68094	1 1
60	0.10510	9.51436	1 0.12278	8.14435	0.14054	7.11537	0.15838	6.31375	0.17633	5.67128	iō
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7	TAN	COT	TAN	COT	TAN	COT	TAN	СОТ	TAN	COT	
0	0.17633	5.67129	0.19438	5.14455	0.21256	4.70463	1 0.23087	4.33148	0.24933	4.01078	1 60
1 1	0.17663	5.66165	0.19468	5.13658	0.21286	4.69791	0.23117	4.32573	0.24964	4.00582	1 59
2	0.17693	5.65205	0.19498	5.12862	0.21316	4.69121	1 0.23148	4.32001	1 0.24995	4.00086	1 28
3 1	0.17723	7.64248	0.19529	5 11270	1 0.21347 I	4.08432	1 0.23179 1 1 0.23209 1	4.31430	0.23026	1 3.77J72	1 57 1 54
5	0.17753 0.17783	1 5.62344	I 0.19589	5.10490	0.21408	4.67121	0.23240	4.30291	0.25087	3.98607	1 55
6	0.17813	1 5.61397	0.19619	I 5.09704 I	0.21438 I	4.66458	1 0.23271	4.29724	0.25118	3.98117	1 54
7 1	0.17843	5.60452	0.19649	5.08921	I 0.21469 I	4.65797	1 0.23301	4.29159	0.25149	3.976 2 7	I 5 3
8 (0.17873	5.59511	0.19680	5.08139	0.21499	4.65138	0.23332	4.28595	0.25180	3.97139	1 52
9 (0.17903	5.58573	0.19710	5.07360	0.21529	4.64480	1 0.23363 1	4.28032	0.25211	3.70031	1 51
10	0.17933 0.17963	1 5.5/638 1 5.56706	1 0.19740 ·	1 5.05809	0.21560 0.21590	4.63171	1 0.23424	4.26911	1 0.25272	3.95480	1 49
12	0.17993	1 5.55777	0.19801	5.05037	0.21621 1	4.62518	1 0.23455	4.26352	0.25304	3.95196	(48
13	0.18023	5.54851	0.19831	5.04267	0.21651 I	4.61868	1 0.23485	4.25795	0.25335	3.94713	1 47
14	0.18053	5.53927	0.19861	5.03499	0.21682	4.61219	1 0.23516	4.25239	0.25366	3.94232	1 46
							1 0.23547 1 0.23578				
16	0.18113	1 5.52090	0.19921 0.19952	1 5.019/1	0.21/43 0.21773	4.57727	0.23608	4.23580	0.25459	3.732/1	43
18	0.18173	5.50264	0.17782	1 5.00451	0.21804	4.58641	0.23639	4.23030	0.25490	3.92316	1 42
19	0.18203	5.49356	1 0.20012	1 4.99695	0.21834	4.58001	1 0.23670	4.22481	0.25521	3.91 83 9	1 41
20	0.18233	1 5.48451	0.20042	4.9894 0	0.21864	4.57363	1 0.23700 1	4.21933	0.25552	3.91364	1 40
21	0.18263	5.47548	1 0.20073	4.98188	0.21895	4.56726	1 0.23731	4.21387	0.25583	3.90890	1 39
22	0.18293	5.46648	0.20103	1 4.9743B	0.21925	4.56091	1 0.23762	4.20842	0.23614	3.90417	1 38
23	1 0.18323	3.43/31 5.44957	1 0.20155	1 4.76690 1 4 95945	I 0.21736 I I 0.21986 I	4.33438 4.54826	1 0.23793	4.20276	1 0.25676	3.89474	1 34
							1 0.23854				
26	0.18414	1 5.43077	0.20224	1 4.94460	0.22047 I	4.53568	1 0.23885	4.18675	0.25738	3.88536	I 34
27	0.18444	5.42192	0.20254	1 4.93721	0.22078 1	4.52941	0.23916	4.18137	0.25769	3.89048	1 22
28	0.18474	5.41309	0.20295	4.92984	0.22108	4.52316	1 0.23946	4.17600	0.25900	3.97401	1 32
							1 0.23977 1 0.24008				
30	J 0. 18334	1 5.37332 1 5.38677	1 0.20376	J 4. 90785	0.22197	4.50451	1 0.24039	4. 15997	0.25893	3.86208	1 29
32	0.18574	5.37805	0.20406	4.90056	0.22231	4.49832	1 0.24069	4.15465	0.25924	3.85745	1 28
33	0.18624	1 5.36936	0.20436	4.89330	0.22261	4.49215	1 0.24100	4.14934	0.25955	3.85284	1 27
							1 0.24131				
							0.24162				
							0.24193 0.24223				
							1 0.24254				
							0.24285				
							1 0.24316				
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							1 0.24562				
							0.24593				
							1 0.24624 1 0.24655				
							1 0.24686				
							1 0.24717				
54	0.19257	5.19293	0.21073	1 4.74534	I 0.22903 I	4.36623	0.24747	4.040B1	0.26608	3.75828	1 6
							1 0.24778				
							1 0.24809				
							J 0.24840				12
							1 0.24902				
							1 0.24933				
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N	TAN	COT	TAN	COT	TAN	COT	TAN	COT	TAN	COT		
0 1	0.26795	3.73205	0.28675	3.48741	0.30573	3.27085	0.32492	3.07768	0.34433	2.90421	1 60	
1 1	0.26826	3.72771	0.28706 1	3.48359 I	0.30605	3.26745	0.32524	3.07464	0.34465	2.90147	1 59	
2 1	0.26857 I	3.72338	I 0.28738 I	3.47977 I	0.30637	3.26406	0.32556	3.07160	0.34498	2.89873	1 58	
3 1	0.26888 1	3.71907	0.28769	3.47596	0.30669	3.26067	0.32588	3.06857	0.34530	2.87600	1 2/	
4 !	0.26920	3.71476	0.28801	3.47216	0.30700	3.25/29	0.32621	3.06554	1 0.34363	2.0732/	1 30	
5 !	0.26951	3.71046	0.28832	3.4683/	0.30732	1 3.23372 1 3 25055	0.32653 0.32685	3.00232	1 0.34378	2.87VJJ ·	1 33 1 54	
7 1	0.26782 0.27013	3.70818	1 0.20004	3.46436 I	0.30784	3.24719	0.32717	3.05649	0.34661	2.88511	53	
9 1	0.27044	3.49741	1 0.28927 1	3.45703 1	0.30828	3.24383	0.32749	3.05349	1 0.34693	2.88240	1 52	
9 1	0 27076 1	3.49335	1.0.28958	3.45327 (0.30860	3.24049	1 0.32782	3.05049	1 0.34726	2.87970	51	
10	0.27107	3.68909	1 0.28990 1	3.44951	0.30891	I 3.23714	0.32814	3.04749	1 0.34758	2.87700	50	
11	0.27138	3.68485	1 0.29021	3.44576 I	0.30923	3.23381	1 0.32846	3.04450	1 0.34791	2.87430	1 49	
12	0.27169	3.68061	i 0.29053 i	3.44202	0.30955	1 3.2304B	0.32878	3.04152	0.34824	2.87161	48	
13	0.27201	3.67638	1 0.29084	3.43829	0.30987	1 3.22/15	0.32911 0.32943	3.0383 4	1 0.34836	2.66672	44	
14 15	1 0.2/232 1	3.0/21/	1 0.27116	1 3.43436 I	0.31017	1 3.22309	0.32975	3.03336	0.34922	2.86356	1 45	
16	0.27283 0.27294	3.00770 3.44374	1 0.27177	1 3.43004 I	0.31031	1 3.21722	0.33007	3.02963	0.34954	2.86089	1 44	
17	0.27326	3.65957	0.29210	3.42343	0.31115	3.21392	0.33040	3.02667	0.34987	2.85822	1 43	
18	0.27357	3.65538	0.29242	3.41973	0.31147	3.21063	I 0.33072	3.02372	0.35020	2.85555	1 42	
19	1 0.27388 I	3.65121	1 0.29274	3.41604 1	0.31178	3.20734	I 0.33104	3.02077	0.35052	2.852 8 9	1 41	
20 1	1 0.27419 I	3.64705	1 0.29305	3.41236	0.31210	3.20406	1 0.33136	3.01783	0.35085	2.85023	1 40	
21	0.27 45 1	3.64289	I 0.29337 I	3.40869	0.31242	1 3.20079	0.33169	3.01489	0.35118	2.84758	1 39	
22	1 0.27482 1	3.63874	0.29368	3.40502	0.31274	3.19752	0.33201	3.01196	0.35150	2.84494	38	
23	0.27513	3.63461	0.29400	3.40136	0.31306	3.19426	0.33233	3.00903	0.35183	2.84229	1 3/	
24	1 0.2/545 1	3.63048	1 0.27452 1	1 3.39//1 1	0.31338	1 3.17100	0.33266 0.33298	3.00811	1 0.33218	2.83702	35	
25	1 0.27507 1	3.62036	1 0.29495	3.37400	0.31402	3.18451	0.33330	3.00028	0.35281	2.83439	1 34	
27	0.27638	3.61814	0.29526	3.38679	0.31434	3,18127	0.33363	2.99738	0.35314	2.83176	1 22	
28	1 0.27670 1	3.61405	1 0.29558	3.38317	0.31466	1 3.17804	1 0.33395	2.99447	1 0.35346	1 2.82914	1 32	
29	0.27701	3.60996	I 0.29590	3.37955	0.3149B	I 3.17481	1 0.33427	2.99158	1 0.35379	2.82653	1 31	
							1 0.33460					
							0.33492					
							0.33524					
33	1 0.27826 I	3.59370	1 0.29716	3.36516	0.31626	1 3.16197 1 7 15077	0.33557 0.33589	2.98004	1 0.35510	2.81610	1 2/	
34	V.2/838	7 50540	1 0.27/48	: 3.30130 : 3.30130	0.31636	/ 3.130// / 3 15559	1 0.33621	2.97/17	1 0.33376	2.81091	25	
							0.33654					
							0.33686					
38	1 0.27983 1	3.57357	0.29875	1 3.34732 1	0.31786	1 3.14605	0.33718	2.96573	0.35674	2.80316	22	
							0.33751					
40	1 0.29046	3.54557	0.29938	3.34023	0.31850	3.13972	0.33783	2.96004	0.35740	2.79802	1 20	
41	0.29077	3.56159	1 0.29970	3.33670	0.31882	1 3.13656	0.33816	2.95/21	1 0.35//2	2.79343	! 19 ! 18	
42	0.29109	3.33/61	0.30001	1 3.3331/ (0.31914	1 3.13341	0.33848 0.33881	2.7043/ 2.86166	1 0.33603	1 2./7 207	1 17	
44	1 0.28140 (3.33387 3.549AR	1 0.30033	1 3.32763 (0.31748	1 3.13027	0.33913	2.94872	1 0.35871	2.79778	14	
45	0.28203	3.54573	1 0.30097	3.32264	0.32010	3.12400	0.33945	2.94591	0.35904	2.78523	1 15	
46	1 0.28234	3.54179	1 0.30128	3.31914	0.32042	3.12087	1 0.33978	1 2.94309	I 0.35937	1 2.78269	14	
47	0.28266	3.53785	0.30160	3.31565	0.32074	1 3.11775	0.34010	2.74028	0.35747	2.78014	13	
48	1 0.28297	3.53393	1 0.30192	3.31216	0.32106	3.11464	1 0.34043	1 2.93748	0.36002	1 2.77761	1 12	
							0.34075					
							0.34108					
51	0.28391	3.52219	1 0.30287	1 3.30174	0.32203	. 3.10532	0.34140	1 2.72710	1 0.36101	1 2.//002	1 8	
							0.34173 0.34205					
							1 0.34238					
							0.34270					
							1 0.34303					
57	0.28580	3.49894	I 0.3047B	3.28109	0.32396	1 3.08685	1 0.34335	2.91246	91246 0.36298 :		1 3	
58	0.28612	3.49509	1 0.30509	1 3.27767	0,32428	1 3.08379	1 0.34368	2.90971	0.36331	1 2.75246	1 2	
59	1 0.28643	3.49125	0.30541	3.27426	0.32460	1 3.08073	1 0.34400	2.90696	0.36364	1 2.74997	1 1	
60	0.28675	3.48741	0.30573	1 3.27085	0.32492	1 3.07768	1 0.34433	2.90421	0.36397	2.74748	. 0	
	COT	TAN	COT	TAN	COT	TAN	COT	TAN	COT	TAN	M	
										- -	- I	
	74	. -	73	5-	72	2*	71	L -	70	70° N		

m	20	,-	21	-	22	2=	23	; -	24	-	
7	TAN	COT	TAN	COT	TAN	COT	TAN	СОТ	TAN	COT	-
0	0.36397	2.74748	0.38386	2.60509	0.40403	2.47509	0.42447	2.35585	0.44523	2.24604	1 60
			0.38420								
			I 0.38453 I								
3 i	0.36476 0.36529	1 2.74004	0.38520	2.57631 1	0.40538	1 2.46682	0.42585	1 2.34825	1 0.44662	2.23902	1 56
5	0.36562	2.73509	1 0.38553	2.59381	0.40572	1 2.46476	0.42619	2.34636	0.44697	2.23727	1 55
			1 0.38587								
7	0.36628	2.73017	1 0.38620	2.58932	0.40640	2.46065	0.42688	2.34258	0.44767	2.23378	1 53
			0.38654								
			1 0.38687 (1 0.38721 (
			1 0.38754								
			0.38787								
13	0.36826	2.71548	1 0.38821	2.57593	0.40843	1 2.44839	0.42894	1 2.33130	0.44977	2.22337	1 47
14	0.36859	2.71305	0.38854	2.57371	0.40877	1 2.44636	1 0.42929	2.32943	0.45012	2.22164	1 46
15	0.36892	2.71062	0.38999 0.38921	2.57150	0.40911	1 2.44433	1 0.42963	2.32/56	1 0.45047	2.21992	1 43
15	0.36925 0.36958	2.70819	0.38921	2.56707 1	0.40943	1 2.44230	1 0.43032	1 2.32370	0.45117	2.21647	1 43
18	0.36991	2.70335	1 0.38988	2.56487	0.41013	2.43825	1 0.43067	I 2.32197	1 0.45152	2.21475	1 42
19	0.37024	2.70094	1 0.39022	2.56266	0.41047	1 2.43623	0.43101	1 2.32012	1 0.45187	2.21304	1 41
20	0.37057	2.69853	1 0.39055	2.56046	0.41081	1 2.43422	0.43136	1 2.31826	0.45222	2.21132	1 40
			0.39089								1 39
22	0.37123	2.69371	1 0.39122	2.55608	0.41149	1 2.43019	1 0.43205	2.31436 2.31436	1 0.45272	2.20/40	38
			0.37138								
			1 0.39223								
26	0.37256	2.68414	1 0.39257	2.54734 I	0.41285	2.42218	0.43343	2.30718	0.45432	2.20108	1 34
27	0.37289	2.68175	1 0.39290	2.54516 I	0.41319	1 2.42019	1 0.43378	2.30534	1 0.45467	2.19938	
28	0.37322	2.67937	1 0.39324	2.54299	0.41353	1 2.41819	0.43412	2.30351	0.45502	2.19769	1 32
			0.39357 0.39391								
			0.39425								
			1 0.3945B								
			1 0.39492								
			0.39526								
			0.39559								
			1 0.39593								
			0.37660								
			1 0.39694								
			1 0.39727								
			0.39761								
			0.39795								
			1 0.39829 I								
			1 0.39896								
			0.39930								
47	1 0.37953	2.63483	1 0.39963	2.50229 I	0.42002	1 2.38084	1 0.44071	1 2.26909	1 0.46171	2.14585	1 13
			1 0.39997								
			0.40031								
			1 0.40065 1 0.4009B								
			1 0.40132								
53	0.38153	2.62103	0.40166	2.48967	0.42207	1 2.36925	1 0.44279	1 2.25840	1 0.46383	2.15596	1 7
54	0.38186	1 2.61874	1 0.40200	2.48758	0.42242	2.36733	1 0.44314	1 2.25663	0.46418	2.15432	1 6
			0.40234								
			1 0.40267								
			0.40301 0.40335								1 3
			1 0.40359								
			0.40403								
		TAN	COT	TAN	COT	TAN	COT	TAN	COT	TAN	- M - I
	6 5	> - 	68	·	67	,		, - 	45	•	<u> </u>

m	25	-	26		27	-	28		29		
I	TAN	COT	TAN	COT	TAN	COT	TAN	COT	TAN	COT	-
0 1	0.46631	2.14451	0.48773	2.05030	0.50953	1.96261	0.53171 0.53208	1.88073	0.55431 0.55449	1.80405	1 50
1 1	0.46666	2.14288	1 0.48809	2.048/7 (0.30787	1.76120	0.53246	1.87809	1 0.55507	1.80158	58
3	0.46737	2.13963	0.48881	2.04577	0.51043	1.95838	0.53283	1.87677	0.55545	1.80034	57
4	0.46772	2.13801	1 0.48917	1 2.04426	0.510 99	1.95698	1 0.53320 1	1.87546	1 0.55583	1.79911	1 56
5 1	0.46808	2.13639	I 0.48953 I	2.04276	0.51136	1.95557	0.53358	1.87415	0.55621	1.79788	1 55
6 1	0.46843	2.13477	0.48989	2.04125	0.51173	1.95417	0.53395	1.87283	0.55659	1.79665	54
7	0.46879	2.13316	1 0.49026	2.039/5	0.51209 0.51244	1.952//	0.53432 0.53470	1.8/132	1 0.3367/ (1 0.55736)	1.79419	1 52
9	0.46714 0.46950	2.1313 4 2.12993	1 0.47082	2.03625	0.51245	1.94997	0.53507	1.86891	0.55774	1.79296	51
							0.53545				
							0.53582				
							0.53620				
13	0.47092	2.12350	1 0.49242	2.03078	0.51430	1.94440	0.53657 0.53694	1.86369	1 0.33726	1.7880/	1 4/
							0.53732				
							0.53769				
17	0.47234	2.11711	1 0.49387	2.02483	I 0.51577 I	1.93885	1 0.53807 I	1.85850	1 0.56079	1.78319	
							1 0.53844				1 42
							1 0.53882 (41
							0.53920 0.53957				
22 1	0.47412	2.110/3	1 0.47552 1 0.49568	2.01541	0.51724 (1.93195	0.53995	1.85204	1 0.56270	1.77713	138
							1 0.54032				37
							1 0.54070				1 36
							0.54107				1 35
							0.54145				
							0.54183 0.54220				332
							1 0.54258				31
							0.54296				1 30
							1 0.54333 (1 29
							0.54371				
							1 0.54409 I				
							0.54484				
							1 0.54522				
							1 0.54560				
							1 0.54597				
							1 0.54635 1 0.54673				1 21
							I 0.54711				1 19
							1 0.54748				18
43	0.48163	2.07630	0.50331	1.98684	i 0.52538 i	1.90337	1 0.54786	1.82528	1 0.57078	1,75200	1 17
							1 0.54824				
							1 0.54862				_
							0.54900 0.54938				14 13
							1 0.54975				1 13 1 12
							0.55013				
50	0.48414	2.06553	0.50587	1.97681	0.52798	1.89400	1 0.55051	1.81649	0.57348	1.74375	
							0.55089				9
							0.55127				1 B 1 7
							1 0.55165				
							0.55241				i 5
56	0.48629	2.05637	0.50806	1.96827	0.53022	1.88602	1 0.55279	1.80901	0.57580	1.73671	1 4
							0.55317				1 3
							0.55355				1 2
							0.55393 0.55431				1 0
		TAN		TAN	COT	TAN		TAN	COT	TAN	- M - I
	6.4	. •	63	; -	62	-	61	. •	60	,=	Ñ

	30		31		32		33	•	34	-	
I N	TAN	COT	TAN	COT	TAN	COT	TAN	COT	TAN	COT	-
	0.57735.1	1 73205	0.60086	1.66428 1	0.62487	1.60033	0.64941	1.53986	0.67451	1.48256	1 60
• •	0 57774 I	1 73089	1 0 60126 1	1.AA318 I	0.42527	1.59930	0.64982	1.53888	I 0.67493 ∶	1.48163	I 59
2 1	0.57813.1	1.72973	I 0.40165 L	1.66209 1	0.62568	1.59826	I 0.65024 I	1.53791	1 0.67536	I 1.48070	1 28
T 1	0.57851 #	1.72857	1 0.40205 1	1.66099 1	0.62608	1.59723	0.65065	1.53693	1 0.67578	1 1.47977	1 57
4 1	0.57890 I	1.72741	1 0.60245 i	1.65990	0.62649	1.59620	0.65106	1.53595	0.67620	1.47985	1 26
5 1	0.57929	1.72625	0.60284	1.65881	0.62689	1.5951/	0.65148	1.33497	1 0.6/663	1.4//72	1 53
6 !	0.57968 1	1.72509	0.60324 0.60364	1,65//2	0.62/30	1.37414	0.63167 0.63231	1.53300	1 0.67768	1.47607	53
7 !	0.58007	1.72393	0.60364 0.60403	1.00000	0.62770	1.57311	1 0.65232 I	1.53205	0.67790	1.47514	1 52
9 1	0.38046	1.72163	0.60443	1.65445	0.62852	1.59105	0.65314	1.53107	0.67832	1.47422	1 51
10	0 50124 I	1 72047	L D. ADARS I	1.45337 [0.42892	1.59002	0.65355	1.53010	1 0.67975	1.47330	1 50
11 1	0.59162.1	1.71932	1 0.40522 1	1.45228	0.62933	1.58900	1 0.65397	1.52913	1 0.67917	1.47238	1 47
12 1	0.58201.1	1.71817	1 0.40562 1	1.65120	0.62973	1.58797	I 0.65438 I	1.52916	1 0.67960	1.47146	1 48
13	0.58240	1.71702	0.60602	1.65011	0.63014	1.38693	0.65480 0.45531	1.32/19	0.68002	1 1.47033	1 44
14	0.58279	1.71588	0.60642 0.60681	1.64703	0.63033	1.36373	1 0.63321 1 0 4554	1.52525	1 0.55043	1.44870	1 45
15 (0.38318	1,71773	0.60721	1.64AR7 I	0.63075	1.58388	0.65604	1.52429	0.68130	1.46778	1 44
17	0.58394	1.71244	1 0.60761 1	1.64579	0.63177	1.58286	0.65646	1.52332	0.68173	1.46686	1 43
18	0.58435	1.71129	1 0.60B01 I	1.64471	0.63217	1.50184	0 .65688	1.52235	0.68215	1.46595	42
19	0.58474	1.71015	1 0.60841 1	1.64363	0.63258	1.58083	0.65729	1.52139	0.68258	1.46503	1 41
20 1	0.58513	1.70901	1 0.40BB1 I	1.64256	0.63299	1.57981	1 0.65771	1.52043	0.68301	1 1.46411	1 40
21	0.58552	1.70787	0.60921	1.64148	0.63340	1.57879	0.65813	1.51946	0.68343	1.46320	1 28
22	0.58591	1.70673	0.60960 1	1.64041	0.63380	1.3///8	1 0.63834 1	1.51850	U.05386	1.70227 1.84137	137
23 (0.58631	1.70560	0.61000 0.61040	1.63734	0.63421	1.3/8/8	1 0.65676 I	1.51658	1 0.68471	1 1.46046	36
25	0.386/0	1.70448	1 0.61080 1	1.63626	0.63503	1.57474	I 0.65980 I	1.51562	0.68514	1 1.45955	35
26 1	0.58748	1.70219	1 0.61120 I	1.63612	0.63544	1 1.57372	1 0.66021	1.51466	1 0.68557	1 1.45864	1 34
27	0.58787	1.70106	1 0.61160 1	1.63505	0.63584	1.57271	0 .660 63	1.51370	1 0.6 8 600	1 1.45773	1 33
29	0 58824 1	1.49992	1 0-61200 I	1.43398 1	0.63625	I 1.57170	1 0.66105 1	1.51275	1 0.68642	1 1.45682	132
29	0.58845	1.69879	0.61240	1.63292	0.63666	1.57069	0.66147	1.51179	0.68685	1.45592	1 31
30	0.58905	1.69766	0.61290 0.61320	1.63185 (0.63/0/	1.36767	1 0.66187	1.31084	1 0.00/20	1 1 45410	1 20
31	0.58944	1.67633	0.61320	1.63079 1	0.63748	1.56066	1 0.66230 I	1.50893	0.68771	1.45320	28
32	0.59022	1.67371	0.61400	1.62866	0.63830	1.56667	0.66314	1.50797	0.68857	1.45229	1 27
34	0.59061	1.69316	1 0.61440 1	1.62760	0.63871	1.56566	1 0.66356 (1.50702	1 0.68900	1 1.45139	1 26
35	0.59101	1.69203	I 0.61480 I	1.62654	0.63912	1.56466	1 0.66398 1	1.50607	1 0.68942	1 1.45049	1 25
36	0.59140	1.69091	I 0.61520 I	1.62548	0.63953	1.56366	1 0.66440 [1.50512	1 0.68985	l 1.44958	1 24
37	0.59179	1.68979	0.61561	1.62442	0.63994	1.56265	0.66482	1.50417	0.69028	1.44868	23
38	0.59218	1.68866	0.61601	1.62336	0.64035	1.56165	0.66524	1.50322	0.690/1	1 1.44//8	1 22
39	0.59258	1.68754	0.61641 0.61681	1.62230	0.640/6	1.36063	1 0.00300	1.50228	1 0.67117	1 1 44599	1 20
40	0.3727/ 0.50334	1.00073	0.61721	1.62123	0.64158	i 1.55866	0.66650	1.50038	0.49200	1.44508	1 19
42	0.59376	1.68419	1 0.61761	1.61714	0.64199	1.55766	1 0.66692	1,49944	1 0.69243	1.44418	1 18
43	0.59415	1.68308	1 0.61801 I	1.6180B	0.64240	1.55666	1 0.66734	1.49849	1 0.69286	1 1.44329	1 17
44	0.59454	1.68196	1 0.61842	1.61703	0.64281	1 1.55567	1 0.66776	1.49755	1 0.69329	1.44239	1 16
45	0.59494	1.68085	1 0.61882 1	1.61598	0.64322	1.55467	0.66818	1.47661	0.69372	1 1.44149	1 15
46	0.59533	1.67974	1 0.61922 1 0.61962	1.61493	0.64363	1.55368	1 0.66860 1	1.4 7366 1.49472	1 0.67416	1 1.44060	1 13
47	1 0.575/3	1.6/863	1 0.61962 1	1.01300	0.64444	1.55170	1 0.66702	1.49379	0.69502	1.4390	1 12
49	0.59651	1 - 67641	L 0. 62043 I	1.61179	0.64487	1.55071	1 0.66986	1.49284	1 0.69545	1.43792	11
50	0.59691	1.67530	1 0.62083 1	1.61074	0.64528	1.54972	1 0.67028	1.49190	0.47568	1.43703	1 10
51	0.59730	1.67419	1 0.62124	1.60970	0.64569	1.54873	1 0.67071	1.49097	0.69631	1.43614	1 9
52	0.59770	1.67309	1 0.62164 1	1.60B65 I	0.64610	1.54774	0.67113	1.49003	0.69675	1 1.43525	1 8
			0.62204								
54	0.59849	1.67088	1 0.62245 1	1.60657	0.64693	1 1.54576	1 0.67197	1.48816	0.69761	1.43347	! 6
55	0.59888	1.66978	0.62285 0.62325	1.60553	0.64734	1 1.54478	1 0.67239	1.48722 1 1 AP420	1 0.69804	1.43238	1 5
56 57	1 0.39928	1.00007	1 0.62325 1	1.60345	0.647/3	1.54281	1 0.67324	1.48534	1 0.67871	1.43080	
58	0.60007	1.66647	1 0.62406	1.60241	0.64858	1.54183	0.67366	1.48442	0.69934	1.42992	i 2
59	0.60046	1.66538	1 0.62446 1	1.60137	0.64899	1.54085	0.67409	1.48349	I 0. 699 77	1.42903	1 1
60	0.60086	1.6642B	1 0.62487	1.60033	0.64941	1.53986	0.67451	1.48256	0.70021	1.42915	1 0
		TAN'	COT	TAN	COT	TAN	COT	TAN	COT	TAN	
		TAN									- I
	59	•	58	; -	57	, .	56	,-	55	5-	N

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1 0.70044 1.42726 0.72697 1.37554 0.75407 1.32524 0.78125 1.27917 0.81027 1.23416 1.5760 0.70151 1.23416 0.76127 1.2	_	TAN	COT	TAN	COT	TAN	COT	TAN	COT	TAN	COT	-
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56 0.72477 1.37976 0.75173 1.33026 0.77941 1.28302 0.80786 1.23784 0.83712 1.19457 4 57 0.72521 1.37891 0.75219 1.32946 0.77988 1.28225 0.80834 1.23710 0.83761 1.19387 3 58 0.72565 1.37807 0.75264 1.32865 0.78035 1.28148 0.80882 1.23637 0.83811 1.19316 2 59 0.72610 1.37722 0.75310 1.32785 0.78082 1.28071 0.80930 1.23563 0.83860 1.19246 1 60 0.72654 1.37638 0.75355 1.32704 0.78129 1.27994 0.80978 1.23490 0.83910 1.19175 0 COT TAN COT TAN COT TAN COT TAN COT TAN COT TAN TAN TAN TAN TAN TAN TAN TAN TAN TA												
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59 0.72610 1.37722 0.75310 1.32785 0.78082 1.28071 0.80930 1.23563 0.83860 1.19246 1 60 0.72654 1.37638 0.75355 1.32704 0.78129 1.27994 0.80978 1.23490 0.83910 1.19175 0 COT TAN COT TAN COT TAN COT TAN COT TAN TAN TAN TAN TAN TAN TAN TAN TAN TA												
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I												
		COT	TAN	COT	TAN	COT	TAN	COT	TAN			
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	0.83910										
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3									0.96738		
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									0.96963		
8									0.97020		
9	0.84357	1.18544	0.87389	1.14430	0.90516	1.10478	1 0.93742 1	1.06676	1 0.97076	1.03012	1 51
10	0.84407	1.18474	0.87441	1.14363	0.90569	1.10414	0.93797	1.06613	0.97133	1.02952	1 50
	0.84457 0.84507										
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15	0.84656 I	1.18125	0.87698	1.14028	0.90834	1.10091	0.94071	1.06303	0.97416	1.02453	1 45
	0.84706										
17	0.84756	1.17986	0.87801	1.13894	0.90940	1.09963	0.941B0	1.06179	1 0.97529	1.02533	1 43
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21	0.84956	1.17708	1 0.87733	1.1387 7	0.71077	1 1.09770	0.74343	1.03774	1 0.77700	1.02333	1 40 1 39
	0.85006										
23	0.85057	1.17569	0.89110	1.13494	0.91259	1.09578	0.94510	1.05809	1 0.97870	1.02176	1 37
	0.85107										
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29	0.85358	1.17154	0.88421	1.13096	0.91580	1.09195	0.94841	1.05439	1 0.98213	1.01820	1 32
30	0.85408	1.17085	i 0.88473 i	1.13029	0.91633	1.09131	1 0.94896 I	1.05378	1 0.98270 1	1.01761	1 30
31	0.85458	1.17016	I 0.88524 I	1.12963 I	0.91687	1.09067	0.94952	1.05317	1 0.98327	1.01702	1 29
32	0.85509	1.16947	0 .885 76	1.12897 I	0.91740	1.09003	1 0 .95 007 I	1.05255	1 0.98384 1	1.01642	1 28
33	0.85559	1.16878	0.88628	1.12831	0.91794	1.08940	0.95062	1.05194	1 0.98441 I	1.01583	1 27
37	0.85609 0.85660	1 14741	0.88680 0.88732	1.12/63 !	0.9184/	1.088/6	0.95118	1.05133	1 0.98499 I	1.01524	! 26
34	0.85710	1. 16672	1 0.88784 I	1.12633	0.91955	1.08749	0.731/3 0.95229	1.05072	1 0.76556 I	1.01404	23
37	0.85761	1.16603	0.88836	1.12567	0.92008	1.08686	0.75284	1.04949	0.78671	1.01347	23
38	0.85811 (1.16535	1 0 .8888 8 I	1.12501	0.92062	1.08622	I 0.95340 I	1.04888	1 0.98728 1	1.01288	1 22
39	0.85862 1	1.16466	1 0.88940 I	1.12435 I	0.92116	1.08559	0.95395	1.04827	0.98786 1	1.01229	1 21
40	0.85912	1.16398	1 0.88992	1.12369	0.92170	1.08496	0.95451	1.04766	0. 99943	1.01170	20
42	0.85963 0.86014	1.16327	0.89043 0.89097	1.12303 1	0.92224	1.08432	0.95545	1.04705	0.98901	1.01112	19
43	0.86064	1.16192	0.87077 I	1.12172	0.72277	1.08367	0.73362 0.95418	1.04544	1 0.78738 1 1 0 99014 1	1.01053	1 18
44	0.86115	1.16124	0.89201	1.12106	0.92385	1.08243	0.75673	1.04522	1 0.77015 I	1.00774	16
45	0.86166	1.16056	0 .8925 3	1.12041	0.92439	1.08179	0.95729 (1.04461	1 0.99131 1	1.00976	
46	0.86216	1.15987	0.89306	1.11975	0.92493	1.08116	0.95785	1.04401	1 0.99189 1	1.00818	1 14
47	0.86267	1.15717	0.87358	1.11709	0.92547	1.08053	0.75841	1.04340	1 0.99247 1	1.00759	1 13
48	0.86318	1.15851	0.89410	1.11844	0.92601	1.07990	0.95897	1.04279	0.99304	1.00701	1 12
47 I	0.86368 0.86419	1.13/83	: U.87463 A.90414	1.11778	0.92655	1.07927	0.95952	1.04218	0.99362	1.00642	
51	0.86470	1. 15647	0.89567	1.11648	0.92763	1.07801	0.96064 1	1.04138	1 0.99420 0.99472	1.00583	1 10
52	0.86521	1.15579	0.89620	1.11582	0.92817	1.07738	0.96120	1.04036	. 0.7776 I	1.00467	, , , B
53	0.86572	1.15511	0.89672	1.11517	0.92872	1.07676	0.96176	1.03976	1 0.99594 I	1.00408	7
54	0.86623	1.15443	0.89725	1.11452	0.92926	1.07613	0.96232 1	1.03915	0.99652 i	1.00350	6
35	0.86674	1.15375	0.89777	1.11387	0.92980	1.07550	0.96288	1.03855	0.99710	1.00291	5
57	0.86725 0.86776	1.15308	0.89830 0.89830	1.11321	0.93034	1.07487	0.96344	1.03794	0.99768	1.00233	4
58 I	0.86827	1. 15172	0.89935	1.111236 1	0.93143	1.07362	0.96400 0.96457	1.03/34	1 0.99826 1 0.99824	1.00175	3
59	0.86878	1.15104	0.89988	1.11126	0.93197	1.07299	0.96513	1.03413	0.77007	1.00058	1
60	0.86929	1.15037	0.90040	1.11061	0.93252	1.07237	0.96569	1.03553	1.00000	1.00000	
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